

# Oversize TRU Waste Laser Cutting System

**Development of a Transportable Laser Cutting System for Size Reduction of TRU Waste. The Current Baseline Method of TRU Waste Size Reduction is Manual Labor Using Hand-Held Mechanical Cutting Tools.**



## **Application:**

- Glove boxes and Large Equipment

## **Benefits:**

- Decreased Worker Exposure to Contamination
- Reduced Possibility of an Industrial Type Accident

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## Site Need Addressed:

DOE/NV, NV07; Oversize Transuranic (TRU) Waste Size Reduction

## Estimated Funding Profile (in K's of Dollars):

<u>Cost Item</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY2002</u>	<u>FY2003</u>
Total Cost	850	3,500	3,190	2,250	1,000
ASTD Funding	850	910	0	0	0

## Proposed Schedule:

Laser System Fabrication  
Deployment at NTS  
Deployment at Rocky Flats  
Deployment at Hanford

## Tentative Dates:

6/99-8/00  
8/00-9/01  
9/01-11/02  
11/02-1/04



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## Estimated Cost Savings (in K's of Dollars):

		Baseline	Project	Cost
<u>Site</u>	<u>Activity</u>	<u>Cost</u>	<u>Cost</u>	<u>Savings</u>
All	Laser System Fab.	0	980	-980
All	Development Plan	0	50	-50
NTS	Oversize Box Storage	1,100	0	1,100
NTS	Size Reduction	6,760	3,380	3,380
RFETS	Size Reduction	4,000	2,000	2,000
Hanford	Size Reduction	4,000	2,000	2,000
Total Cost Savings				7,450



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## Return on Investment:

ROI -  $\$7,450,000 / \$1,760,000 = 4.2$

## Points of Contact:

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